

DOCKET NO. 2825.2026-001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Declaration for Patent Application

[] Supplemental (37 C.F.R. §1.67)

As a named inventor, I hereby declare that:

My residence, mailing address and citizenship are as stated next to my name;

I believe I am the original, first and sole inventor (if only one name is listed) or an original, first and joint inventor (if plural names are listed in the signatory page(s) commencing at page 2 hereof) of the subject matter which is claimed and for which a patent is sought on the invention entitled

BDNF POLYMORPHISM AND ASSOCIATION WITH BIPOLAR DISORDER

the specification of which (check one)

[] is attached hereto.

[X] was filed on February 15, 2002 as United States Application
Number or PCT International Application No. 10/077,171
and was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. §1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119 or 365 of any foreign application(s) for patent or inventor's certificate, or of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed:

<u>Prior Foreign Application(s)</u>	Priority Not Claimed	Certified Copy Filed? YES	NO
(Number) _____	(Country) _____	(Day/Month/Year filed) _____	[] [] []
(Number) _____	(Country) _____	(Day/Month/Year filed) _____	[] [] []
(Number) _____	(Country) _____	(Day/Month/Year filed) _____	[] [] []

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole

or first inventor Pamela Sklar

Inventor's Signature Pamela Sklar

Date 5-21-02

Residence 68 Fuller Street

Brookline, MA 02446

Citizenship USA

Mailing Address Same as above

Full name of second joint

inventor, if any Eric S. Lander

Inventor's Signature Eric S. Lander

Date 3-June-2002

Residence 74 R. Fayerweather St.

Cambridge, Massachusetts 02139

Citizenship USA

Mailing Address Same as above

Full name of third joint

inventor, if any J. Raymond DePaulo, Jr.

Inventor's Signature _____

Date _____

Residence 7709 River Hill Road

Baltimore, Maryland 21204

Citizenship USA

Mailing Address Same as above

Full name of fourth joint

inventor, if any Melvin G. McInnis

Inventor's Signature _____

Date _____

Residence 2314 Wonderview Road

Timonium, Maryland 21093

Citizenship Canadian

Mailing Address Same as above



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Declaration for Patent Application

[] Supplemental (37 C.F.R. §1.67)

As a named inventor, I hereby declare that:

My residence, mailing address and citizenship are as stated next to my name;

I believe I am the original, first and sole inventor (if only one name is listed) or an original, first and joint inventor (if plural names are listed in the signatory page(s) commencing at page 2 hereof) of the subject matter which is claimed and for which a patent is sought on the invention entitled

BDNF POLYMORPHISM AND ASSOCIATION WITH BIPOLAR DISORDER

the specification of which (check one)

[] is attached hereto.

[X] was filed on February 15, 2002 as United States Application
Number or PCT International Application No. 10/077,171
and was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. §1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119 or 365 of any foreign application(s) for patent or inventor's certificate, or of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed:

<u>Prior Foreign Application(s)</u>	Priority Not Claimed	Certified Copy Filed? YES NO
(Number) _____ (Country) _____ (Day/Month/Year filed) _____ [] [] []		
(Number) _____ (Country) _____ (Day/Month/Year filed) _____ [] [] []		
(Number) _____ (Country) _____ (Day/Month/Year filed) _____ [] [] []		

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole

or first inventor Pamela Sklar

Inventor's Signature _____ Date _____

Residence 68 Fuller Street

Brookline, MA 02446

Citizenship USA

Mailing Address Same as above

Full name of second joint

inventor, if any Eric S. Lander

Inventor's Signature _____ Date _____

Residence 74 R. Fayerweather St.

Cambridge, Massachusetts 02139

Citizenship USA

Mailing Address Same as above

Full name of third joint

inventor, if any J. Raymond DePaulo, Jr.

Inventor's Signature J. DePaulo Jr. Date 6/5/02

Residence 7709 River Hill Road

Baltimore, Maryland 21204

Citizenship USA

Mailing Address Same as above

Full name of fourth joint

inventor, if any Melvin G. McInnis

Inventor's Signature Melvin G. McInnis Date 6/5/02

Residence 2314 Wonderview Road

Timonium, Maryland 21093

Citizenship Canadian

Mailing Address Same as above



HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

POWER OF ATTORNEY OR AUTHORIZATION OF AGENT AND CORRESPONDENCE ADDRESS

<i>Application Number</i>	10/077,171
<i>Filing Date</i>	February 15, 2002
<i>First Named Inventor</i>	Pamela Sklar
<i>Group Art Unit</i>	Not Assigned
<i>Examiner Name</i>	Not Assigned
<i>Attorney Docket Number</i>	2825.2026-001

I/We hereby appoint

the attorneys/agents associated with **Customer No. 021005**
 Practitioner(s) named below:

as my/our attorneys/agents to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

The correspondence address for the above-identified application is:

Customer Number 021005
Hamilton, Brook, Smith & Reynolds, P.C.
530 Virginia Road
P.O. Box 9133
Concord, Massachusetts 01742-9133

Other _____

Please direct all telephone calls and facsimiles to:

Name Lisa M. Treannie, Esq. Tel. No. 978-341-0036 Fax No. 978-341-0136

I am the:

Applicant/Inventor.
 Authorized representative of the Assignee of the entire interest. See 37 C.F.R. 3.71. A Statement under 37 C.F.R. §3.73(b) is enclosed.
 Authorized representative of an assignee together with **Whitehead Institute for Biomedical Research and General Hospital Corporation** of the entire interest. Separate Statements under 37 C.F.R. § 3.73(b) are enclosed.

SIGNATURE of Applicant or Assignee of Record

Name	<u>R. Keith Baker, Ph.D.</u>
Signature	<u>R. Keith Baker</u> Director Office of Technology Licensing
Date	9/10/02

Total of [3] forms are submitted.

STATEMENT UNDER 37 C.F.R. § 3.73(b)

Applicants: Pamela Sklar, Eric S. Lander, J. Raymond DePaulo, Jr. and Melvin G. McInnis
Application No.: 10/077,171 Filed: February 15, 2002
For: BDNF POLYMORPHISM AND ASSOCIATION WITH BIPOLAR DISORDER

Johns Hopkins University, a University,
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is

A. the assignee of the entire right, title and interest in the patent application identified above; or
B. an assignee together with **Whitehead Institute for Biomedical Research and General Hospital Corporation** of the entire right, title and interest in the patent application identified above. Separate Statements under 37 CFR § 3.73(b) are being submitted.

The right, title and interest of the above-named assignee in the patent application identified above is established by virtue of:

A. An assignment from the inventor(s) of the patent application identified above. The assignment was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or a copy thereof is attached.

OR

B. A chain of title from the inventor(s) of the patent application identified above, to the current assignee as shown below:

1. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or a copy thereof is attached.
2. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or a copy thereof is attached.
3. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or a copy thereof is attached.

Additional documents in the chain of title are listed on a supplemental sheet.

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Date: 9/10/02

Name: R. Keith Baker, Ph.D.
Title: Director Office of Technology Licensing
Signature: R. Keith Baker

Multi-Joint

ASSIGNMENT

WHEREAS, we, **J. Raymond DePaulo, Jr. and Melvin G. McInnis**, together with co-inventors **Pamela Sklar and Eric S. Lander**, have invented a certain improvement in **BDNF Polymorphism And Association With Bipolar Disorder** described in an application for Letters Patent of the United States, the specification of which:

[] is being executed on even date herewith and is about to be filed in the United States Patent Office;

[X] was filed on **February 15, 2002** as Application No. **10/077,171**;

[] was patented under U.S. Patent No. [] on [].

COPY

WHEREAS, **Johns Hopkins University** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **State of Maryland**, and having a usual place of business at **720 Rutland Avenue, Baltimore, Maryland 21205** desires to acquire an interest therein in accordance with agreements duly entered into with us;

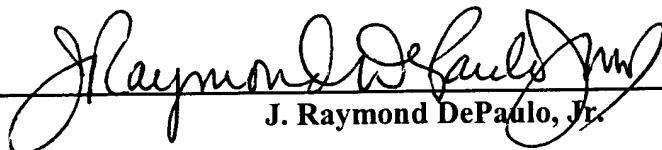
NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, our entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with our entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of our entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature:



J. Raymond DePaulo, Jr.

State/Commonwealth

of Maryland

County of Baltimore

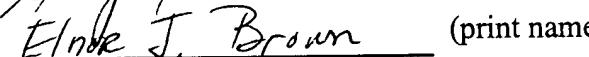
Then personally appeared before me the above-named **J. Raymond DePaulo, Jr.** and acknowledged that he executed the foregoing instrument as his free act and deed this

5 day of June, 2002.

(SEAL)



Notary Public



(print name)

My Commission expires 1/11/04

Inventor's Signature:

Melvin G. McInnis

Melvin G. McInnis

State/Commonwealth

of Maryland

County of Baltimore

Then personally appeared before me the above-named Melvin G. McInnis and acknowledged that he executed the foregoing instrument as his free act and deed this 5 day of June, 2002.

(SEAL)

Elin J. Brown Notary Public

Elin J. Brown (print name)

My Commission expires 11/11/04



HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

POWER OF ATTORNEY OR AUTHORIZATION OF AGENT AND CORRESPONDENCE ADDRESS

<i>Application Number</i>	10/077,171
<i>Filing Date</i>	February 15, 2002
<i>First Named Inventor</i>	Pamela Sklar
<i>Group Art Unit</i>	Not Assigned
<i>Examiner Name</i>	Not Assigned
<i>Attorney Docket Number</i>	2825.2026-001

I/We hereby appoint

the attorneys/agents associated with Customer No. 021005
 Practitioner(s) named below:

as my/our attorneys/agents to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

The correspondence address for the above-identified application is:

Customer Number 021005
Hamilton, Brook, Smith & Reynolds, P.C.
530 Virginia Road
P.O. Box 9133
Concord, Massachusetts 01742-9133
 Other _____

Please direct all telephone calls and facsimiles to:

Name Lisa M. Treannie, Esq. Tel. No. 978-341-0036 Fax No. 978-341-0136

I am the:

Applicant/Inventor.
 Authorized representative of the Assignee of the entire interest. See 37 C.F.R. 3.71. A Statement under 37 C.F.R. §3.73(b) is enclosed.
 Authorized representative of an assignee together with General Hospital Corporation and Johns Hopkins University of the entire interest. Separate Statements under 37 C.F.R. § 3.73(b) are enclosed.

SIGNATURE of Applicant or Assignee of Record

Name	<u>Patricia Granahan</u>
Signature	<u>Patricia Granahan</u>
Date	<u>July 23, 2002</u>

Total of [3] forms are submitted.

STATEMENT UNDER 37 C.F.R. § 3.73(b)Applicant: Melinda Sklar, Eric S. Lander, J. Raymond DePaulo, Jr. and Melvin G. McInnisApplication No.: 10/077,171 Filed: February 15, 2002For: BDNF POLYMORPHISM AND ASSOCIATION WITH BIPOLAR DISORDER

Whitehead Institute for Biomedical Research, a Corporation,
 (Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is

- A. the assignee of the entire right, title and interest in the patent application identified above; or
- B. an assignee together with **General Hospital Corporation and Johns Hopkins University** of the entire right, title and interest in the patent application identified above. Separate Statements under 37 CFR § 3.73(b) are being submitted.

The right, title and interest of the above-named assignee in the patent application identified above is established by virtue of:

A. An assignment from the inventor(s) of the patent application identified above. The assignment was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or a copy thereof is attached.

OR

B. A chain of title from the inventor(s) of the patent application identified above, to the current assignee as shown below:

1. From: _____ To: _____
 The document was recorded in the Patent and Trademark Office at
 Reel _____, Frame _____, or a copy thereof is attached.
2. From: _____ To: _____
 The document was recorded in the Patent and Trademark Office at
 Reel _____, Frame _____, or a copy thereof is attached.
3. From: _____ To: _____
 The document was recorded in the Patent and Trademark Office at
 Reel _____, Frame _____, or a copy thereof is attached.

Additional documents in the chain of title are listed on a supplemental sheet.

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Date: July 23, 2002Name: Patricia GranahanTitle: Patent CounselSignature: Patricia Granahan

Multi-Sole

ASSIGNMENT

WHEREAS, I, Eric S. Lander, together with co-inventors **Pamela Sklar, J. Raymond DePaulo, Jr. and Melvin G. McInnis**, have invented a certain improvement in **BDNF Polymorphism And Association With Bipolar Disorder**, described in an application for Letters Patent of the United States, the specification of which:

[] is being executed on even date herewith and is about to be filed in the United States Patent Office;

[X] was filed on **February 15, 2002** as Application No. **10/077,171**;

[] was patented under U.S. Patent No. [] on [].

COPY

WHEREAS, **Whitehead Institute for Biomedical Research** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **State of Delaware** and having a usual place of business at **Nine Cambridge Center, Cambridge, Massachusetts 02142** desires to acquire an interest therein in accordance with agreements duly entered into with me;

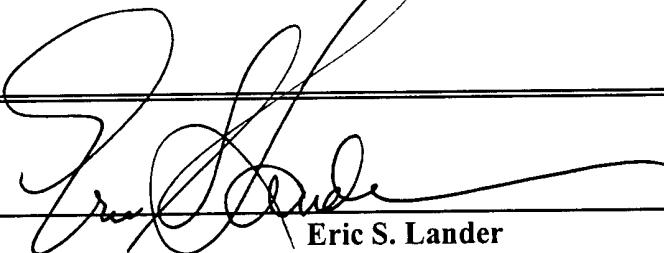
NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, I have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, my entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with my entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by me had this assignment and sale not been made; I hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. I hereby acknowledge that this assignment, being of my entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, I hereby further agree for myself and my executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, I do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my seal the date set forth below.

Inventor's Signature:



Eric S. Lander

State/Commonwealth

of Massachusetts

County of Middlesex

Then personally appeared before me the above-named **Eric S. Lander** and acknowledged that he executed the foregoing instrument as his free act and deed this 3 day of June, 2002.

(SEAL)



Carol Macdonald Notary Public

Carol Macdonald (print name)

My Commission expires 12/19/08



HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

POWER OF ATTORNEY OR AUTHORIZATION OF AGENT AND CORRESPONDENCE ADDRESS

<i>Application Number</i>	10/077,171
<i>Filing Date</i>	February 15, 2002
<i>First Named Inventor</i>	Pamela Sklar
<i>Group Art Unit</i>	Not Assigned
<i>Examiner Name</i>	Not Assigned
<i>Attorney Docket Number</i>	2825.2026-001

I/We hereby appoint

the attorneys/agents associated with Customer No. 021005
 Practitioner(s) named below:

as my/our attorneys/agents to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

The correspondence address for the above-identified application is:

Customer Number 021005
Hamilton, Brook, Smith & Reynolds, P.C.
530 Virginia Road
P.O. Box 9133
Concord, Massachusetts 01742-9133

Other _____

Please direct all telephone calls and facsimiles to:

Name Lisa M. Treannie, Esq. Tel. No. 978-341-0036 Fax No. 978-341-0136

I am the:

Applicant/Inventor.
 Authorized representative of the Assignee of the entire interest. See 37 C.F.R. 3.71. A Statement under 37 C.F.R. §3.73(b) is enclosed.
 Authorized representative of an assignee together with **Whitehead Institute for Biomedical Research and Johns Hopkins University** of the entire interest. Separate Statements under 37 C.F.R. § 3.73(b) are enclosed.

SIGNATURE of Applicant or Assignee of Record

Name

Marie Lossky, Ph.D.

Signature

Industry Agreement Manager

Date

JV(4/21), 2002

Total of [3] forms are submitted.

STATEMENT UNDER 37 C.F.R. § 3.73(b)Applicants: Pamela Sklar, Eric S. Lander, J. Raymond DePaulo, Jr. and Melvin G. McInnisApplication No.: 10/077,171 Filed: February 15, 2002For: BDNF POLYMORPHISM AND ASSOCIATION WITH BIPOLAR DISORDER

General Hospital Corporation, a Corporation
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is

A. the assignee of the entire right, title and interest in the patent application identified above; or
B. an assignee together with **Whitehead Institute for Biomedical Research and Johns Hopkins University** of the entire right, title and interest in the patent application identified above. Separate Statements under 37 CFR § 3.73(b) are being submitted.

The right, title and interest of the above-named assignee in the patent application identified above is established by virtue of:

A. An assignment from the inventor(s) of the patent application identified above. The assignment was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or a copy thereof is attached.

OR

B. A chain of title from the inventor(s) of the patent application identified above, to the current assignee as shown below:

1. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or a copy thereof is attached.
2. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or a copy thereof is attached.
3. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or a copy thereof is attached.

Additional documents in the chain of title are listed on a supplemental sheet.

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Date: Only 23, 2002

Name: Marie Lossky, Ph.D.
Title: Industry Agreement Manager

Signature: Marie Lossky

Multi-Sole

ASSIGNMENT

WHEREAS, I, **Pamela Sklar**, together with co-inventors **Eric S. Lander, J. Raymond DePaulo, Jr. and Melvin G. McInnis**, have invented a certain improvement in **BDNF Polymorphism And Association With Bipolar Disorder**, described in an application for Letters Patent of the United States, the specification of which:

[] is being executed on even date herewith and is about to be filed in the United States Patent Office;

[X] was filed on **February 15, 2002** as Application No. **10/077,171**;

[] was patented under U.S. Patent No. [] on [].

COPY

WHEREAS, **Whitehead Institute for Biomedical Research**, a corporation organized and existing under the laws of the **State of Delaware** and having a usual place of business at **Nine Cambridge Center, Cambridge, Massachusetts 02142** and **General Hospital Corporation**, a corporation organized and existing under the laws of the **Commonwealth of Massachusetts** and having a usual place of business at **55 Fruit Street, Boston, Massachusetts 02114**, (hereinafter "ASSIGNEES") desire to acquire an interest therein in accordance with agreements duly entered into with me;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, I have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEES, their successors, assigns and legal representatives, my entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with my entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEES for their own use and behalf and for their successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by me had this assignment and sale not been made; I hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. I hereby acknowledge that this assignment, being of my entire right, title and interest in and to said invention, carries with it the right in ASSIGNEES to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEES' selection and the right to procure the grant of all such Letters Patent to ASSIGNEES for their own names as assignees of the entire right, title and interest therein;

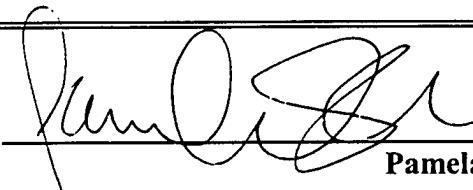
AND, I hereby further agree for myself and my executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEES, their successors, assigns and legal representatives, but at their expense and charges, including the

execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, I do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEES, their successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my seal the date set forth below.

Inventor's Signature:


Pamela Sklar

State/Commonwealth

of Massachusetts

County of Middlesex

Then personally appeared before me the above-named **Pamela Sklar** and acknowledged that she executed the foregoing instrument as her free act and deed this 21st day of May, 2002.

(SEAL)


Notary Public
Kimberly G. Granatine (print name)
My Commission expires 8/4/06